

Ilion, New York
December 30, 1955

SPORTSMAN-58 PRE-PILOT TESTING

Ten (10) guns were selected and fired 325 rounds each, using 14 different loads including the lightest Western-Winchester trap loads, Remington, Winchester and Federal 2-3/4" Magnum loads. The guns were fired at the Ilion Fish & Game Club under skeet shooting conditions. Five (5) shooters were used having variations in shoulder resistance, and the guns and shooters were rotated after each "round" of 25 shots. Five (5) selected shooting points were used to induce extreme variations in "swing". Results were as follows:

<u>Gun Serial No.</u>	<u>Malfunction Rate</u> <u>325 Rounds</u>
2487	1.6%
2186	1.2
2187	0
2236	0
1438	0
2209	0.6
2267	1.2
*2246	1.7
*2193	1.1
*2253	0
Average	0.524%

Total rounds fired in ten guns 3,250

*Endurance guns:

As indicated above, guns numbered 2246, 2193 and 2253 were continued in test under the same conditions for total of 1700 rounds each. Results, as follows:

<u>Rounds</u>	<u>2246</u>	<u>2193</u>	<u>2253</u>
325	1.7%	1.1%	0 %
500	1.8	1.8	0
800	1.2	1.1	0
1100	1.4	1 %	0.3%
1400	1.2	1.1	0.28
1700	1.1	0.9	0.4

It is planned to continue the endurance testing indoors with a shooting jack. Thus far there has been only one (1) breakage in the endurance guns, a firing pin at approximately 1400 rounds.